Infix String : (A+B)\*C Postfix String : AB+C\*

|  |  |  |
| --- | --- | --- |
| Char | Postfix String | Stack |
| ( |  | ( |
| A | A |  |
| + |  | (+ |
| B | AB |  |
| ) | AB+ | Stack is empty |
| \* |  | \* |
| C | AB+C |  |
|  | AB+C\* |  |

Postfix Expression : AB+C\* + (1)

Stack s

+ (1)

( (0) \* (2)

0 >= 1, False 3

2

ch = ‘+’ 1

ch = ‘(‘ 0

top = -1

Infix Expression : (A+B)\*(C-D)/E Postfix Expression : AB+CD-\*E/

|  |  |  |
| --- | --- | --- |
| Char | Postfix | Stack |
| ( |  | ( |
| A | A |  |
| + |  | (+ |
| B | AB |  |
| ) | AB+ | Stack is empty |
| \* |  | \* |
| ( |  | \*( |
| C | AB+C |  |
| - |  | \*(- |
| D | AB+CD |  |
| ) | AB+CD- | \* |
| / | AB+CD-\* | / |
| E | AB+CD-\*E |  |
|  | AB+CD-\*E/ |  |

Postfix Expression is AB+CD-\*E/

Stack / (2)

- (1)

+ (1) ( (0)

( (0) \* (2) /(2)

2 >= 2 T

ch = ‘+’, ‘-‘

ch = ‘(‘, ‘(‘

Home work

1. (A+B)\*(C-D)/E

2. (A^B+D\*F)+M\*K\*P

3. (A^B^C)+(G\*D)